

# Nicholas Yim

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## EDUCATION

### BS (Double Major): Computer Science / Electrical and Computer Engineering

RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY

May 2025

*New Brunswick, NJ*

- **GPA: 3.856** | Dean's List all semesters | Eta Kappa Nu (HKN) Honor Society
- **Relevant Coursework:** Software Engineering, Software Methodology, Design & Analysis of Algorithms, Data Structures, Computer Arch. & Assembly Lang., Info and Data Mgmt, Linear Systems & Signals, Electronic Devices

## EXPERIENCE

### Software Engineering Fellow

Jul. 2024 – Present

HEADSTARTER AI

*Remote*

- Build 5+ AI apps utilizing Next.js, React.js, OpenAI API, Stripe API, RAG, AWS, culminating in a final project aiming to ship to 1000+ users
- Develop projects through full SDLC, leading 3 other fellows using MVC design patterns
- Coached by Google, Amazon, and Bloomberg engineers on Agile, CI/CD, Git, and microservice patterns

### Fulfillment Technology Intern

Jun. 2024 – Aug. 2024

HELLOFRESH

*Newark, NJ*

- Refactored a complex SQL stored procedure into a Python script, increasing execution efficiency by 90% and facilitating quicker financial reviews
- Deployed development updates, improving workflow productivity across 10+ distribution centers in North America
- Addressed critical production issues on server-side via SQL queries and HighJump/Koerber WMS, leading to the effective management of 300,000+ inventory items per day
- Wrote design documentation for new features, providing 60+ team analysts/developers with essential guidelines

### Data Science Extern

May 2023 – Aug. 2023

ECPAT (via RUTGERS MBS EXTERNSHIP EXCHANGE)

*NJ*

- Built mapping program via Python's Pandas, GeoPandas, and Matplotlib libraries to analyze crime in Chicago
- Cleaned/organized 1000s of lines of crime data using Python and CSV files, enhancing analysis accuracy
- Generated visual representations of trafficking and related crimes on Tableau, highlighting trends and hotspots

## PROJECTS / CERTIFICATIONS

### Certifications:

- AWS Certified Cloud Practitioner

### Serenity Sphere | *Next.js, Flask, PostgreSQL, Pinecone, LangChain, Clerk*

Aug. 2024

- *Project Link:* <https://serenity-sphere-snowy.vercel.app/>
- Launched an innovative interface focused on holistic health, hosting 5 distinct AI chatbots along with live support
- Designed a RAG framework, sourcing information from 40+ hand-picked YouTube videos from reputable professionals to train the chatbots
- Maintained a PostgreSQL database to facilitate complex querying for enhanced chat functionalities
- Ensured secure user authentication through Clerk

### InShort | *Next.js, Flask, Pinecone, OpenAI, LangChain, Beautiful Soup*

Jul. 2024

- Developed a personalized news application, providing insights/analyses of current events
- Wrote an automatic Python script to scrape over 125 million articles on the GDELT database
- Employed a RAG pipeline via Pinecone vectors to train the OpenAI model
- Gathered 35+ users on a waitlist in less than 1 day

### Gym Haven | *Node.js, JavaScript, React.js, MongoDB*

Jan. 2024 – May 2024

- Created a subscription-based e-commerce solution for fitness equipment
- Managed a 12-member team, delegating individual assignments and organizing weekly meetings
- Incorporated OAuth Authentication for user registration/login, Stripe API for payment processing, Web3Forms and OpenAI APIs for customer service, and EasyPost API to mimic shipping
- Composed detailed reports outlining data collections, application structure, and 40+ REST API endpoints

### HackRU (Winner) | *Python, Streamlit, AWS EC2*

Feb. 2023

- Achieved first place in health track out of 170 competitors
- Developed a web application in Python utilizing Streamlit open-source app framework to calculate and display live crowd levels at on-campus fitness centers based on user-input
- Deployed the website on a Linux server via an AWS EC2 instance

## TECHNICAL SKILLS

**Languages:** Java, JavaScript, Python, SQL, MATLAB, XML, FXML, HTML/CSS, Swift/SwiftUI, C, C++

**Frameworks:** Next.js, React.js, Node.js, Flask, Jasmine, JUnit, Bootstrap

**Tools/Technologies:** Git, VS Code, IntelliJ, AWS, PostgreSQL, MongoDB, Pinecone, MySQL, Linux, WMS, Firebase, RISC-V